



National Council of Examiners for Engineering and Surveying

www.engineeringlicense.com

www.ncees.org



Engineering Licensure

A Path of Opportunity

What is Licensure?

Why Bother?

Steps to Licensure

FE Exam

PE Exam

What is Licensure?



To the Public

Why is it Important?

To You

National Council of Examiners for Engineering and Surveying

The logo for the National Council of Examiners for Engineering and Surveying (NCEES). It features the acronym "NCEES" in white, bold, sans-serif capital letters. The text is centered within a solid red rectangular box. This box is positioned in the middle of a horizontal orange band that spans the width of the slide.

NCEES

National non-profit responsible for licensure of engineers & surveyors

Prepares and administers FE exam and PE exam

Offers Records Program for licensed engineers & surveyors



Why Bother





Graduate from an ABET-accredited Engineering Program



Pass the Fundamentals of Engineering Exam (FE)



Acquire Engineering Experience with Increasing Levels of Responsibility with Supervision of a Licensed Engineer



Pass the Principles & Practice of Engineering Exam (PE)



Your Name, P.E.
Enjoy the Benefits of a Professional Engineering License



Pass the Fundamentals of Engineering Exam (FE)

What is the test like?

When should I take it?

How do I prepare?

TEST FORMAT

8-Hour Closed-Book Exam

2 Sessions (Morning & Afternoon)

FE Examination

120
Questions

Morning Session

Engineering Economics
Electrical Circuits
Chemistry
Ethics
Dynamics
Fluid Mechanics
Mechanics of Materials
Thermodynamics
Mathematics
Statics
Computers
Material Science

FE Examination

60
Questions

Afternoon Session

Disciplines

- Chemical
- Civil
- Electrical
- Industrial
- Mechanical
- Environmental

General

- Same topics as morning

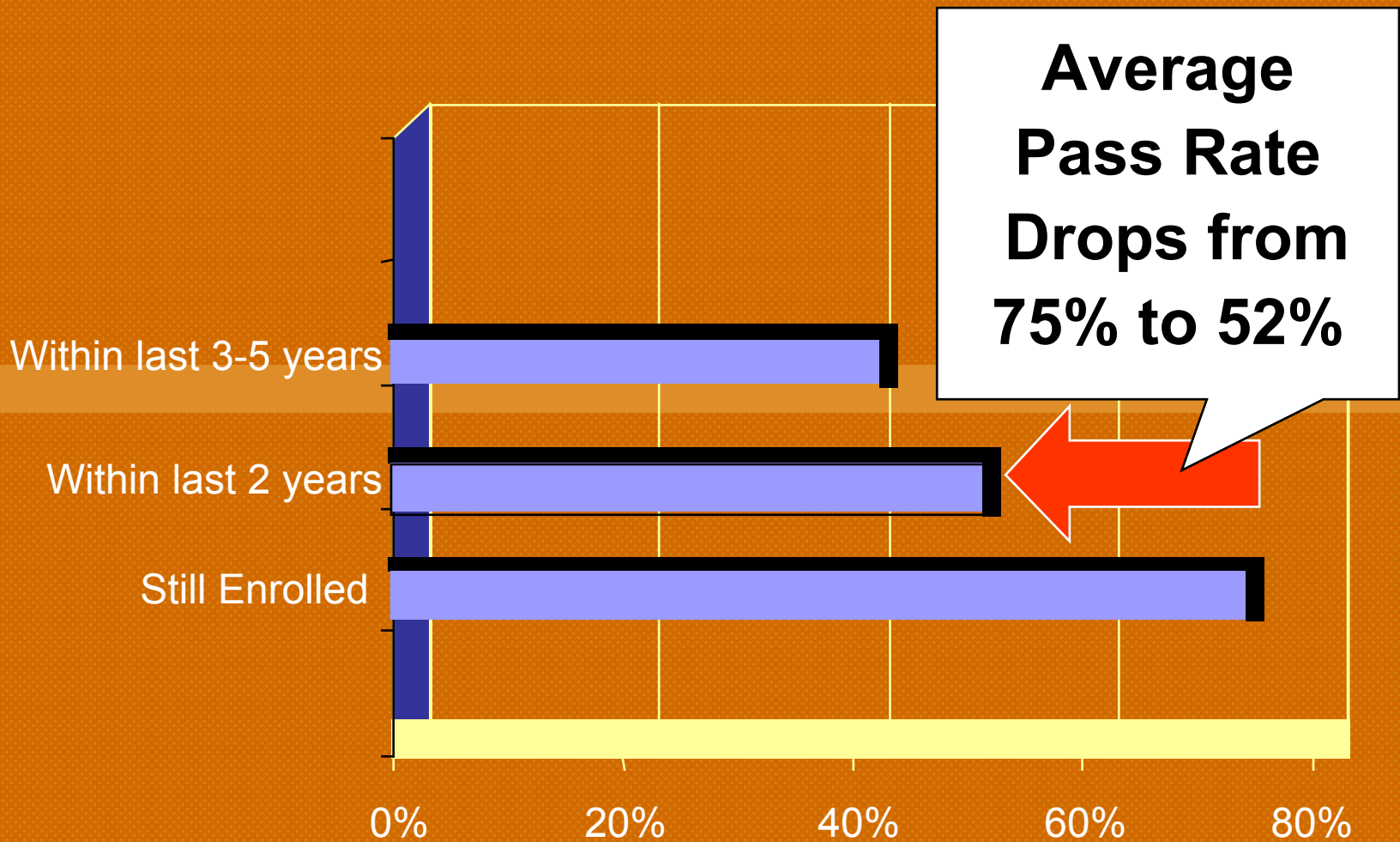
FE Examination

Civil Module

- Computers & Numerical Methods
- Construction Management
- Environmental Engineering
- Hydraulics & Hydrologic Systems
- Legal & Professional Aspects
- Soil Mechanics & Foundations
- Structural Analysis
- Structural Design
- Surveying
- Transportation Facilities
- Water Purification & Treatment

FE Examination

WHEN



PREPARATION



Pass the Principles & Practice of Engineering Exam (PE)

8-Hour Open-Book Exam

Morning & Afternoon Sessions

80 Questions

Offered twice a year

Breadth and Depth Format

Civil PE Examination

“Breadth & Depth”
(All Objective format – since Fall 2000)

Morning Session – Breadth Module
Afternoon Session - Depth Module

Structural

Transportation

Water Resources

Geotechnical

Environmental

Civil PE Examination

Transportation Depth Module

Transportation (65%) – Traffic Analysis, Transportation Planning, Construction, Geometric Design, Traffic Safety

Geotechnical (15%) – Subsurface Exploration and Sampling, Engineering Properties of Soils, Soil Mechanics Analysis, Shallow Foundations

Water Resources (20%) – Hydraulics, Hydrology

Civil PE Examination

“Breadth & Depth”
(All Objective format – since Fall 2000)

Morning Session – Breadth Module
Afternoon Session - Depth Module

Structural

Transportation

Water Resources

Geotechnical

Environmental

Civil PE Examination

Water Resources Depth Module

Water Resources (65%) – Hydraulics,
Hydrology, Water Treatment

Environmental (25%) – Wastewater Treatment,
Biology, Ground Water and Well Fields

Geotechnical (10%) – Subsurface Exploration
and Sampling, Engineering Properties of Soils,
Soil Mechanics Analysis

Civil PE Examination

Task Analysis

Timing

10,000 Recipients

Examination Development

Civil PE Examination

Questions



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